



Linux Learning Centre

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Training & Certification

Programmes at LLC

LLC102: Essentials of Linux OS
LLC103: Linux System & Network Administration
LLC203: Linux Advanced Administration
LLC303: Linux System & Network Monitoring Tools
LLC104: Linux Internals & Programming Essentials
LLC105: Programming with Qt
LLC106: Device Driver Programming on Linux
LLC107: Network Programming on Linux
LLC108: Bash Shell Scripting Essentials
LLC109: CVS on Linux
LLC204: MySQL on Linux
LLC205: Programming with PHP
LLC206: Programming with Perl
LLC207: Programming with Python
LLC208: PostgreSQL on Linux
LLC209: Joomla CMS
LLC210: Drupal CMS
LLC403: Qmail Server Administration
LLC404: Postfix Mail Server Administration
LLC405: Linux Firewall Solutions
LLC406: Open LDAP Server Administration
LLC408: Samba Server Administration
LLC409: DNS Administration
LLC410: Nagios - System & Network Monitoring Software
LLC412: Apache & Secure Web Server Administration
LLC414: Web Proxy Solutions
LLC501: Programming with OpenGL
LLC504: Linux on Embedded Systems
LLC602: Linux Apache MySQL & PHP (LAMP)
RH033: Red Hat Linux Essentials
RH133: Red Hat Linux System Administration
RH253: Red Hat Linux Network & Security Administration
RH301: Red Hat Rapid Track Certification Course
RHS333: Red Hat Enterprise Security : Network Services
RH423: Red Hat Enterprise Directory Services & Authentication
RHS429: Red Hat Enterprise SELinux Policy Administration
RH318: Red Hat Enterprise Virtualization
RH401: Red Hat Enterprise Deployment & Systems Management
RH436: Red Hat Enterprise Clustering & Storage Management
RH442: Red Hat Enterprise System Monitoring & Performance Tuning
RH142: Linux Troubleshooting Techniques & Tools
RH184: Red Hat Enterprise Linux Virtualization
SUSE3071: SUSE Linux Enterprise Server Fundamentals
SUSE3072: SUSE Linux Enterprise Server Administration
SUSE3073: SUSE Linux Enterprise Server Advanced Administration

RH133

LINUX LEARNING CENTRE

Red Hat Linux System Administration

Course Overview

For users of Linux (or UNIX) who want to start building skills in systems administration on Red Hat Enterprise Linux, to a level where they can attach and configure a workstation on an existing network. This 4 day course provides intensive hands-on training on Red Hat Enterprise Linux 5.

Pre-Requisites

RH033 Red Hat Linux Essentials or equivalent experience with Red Hat Linux.

Target Audience

Linux or UNIX users, who understand the basics of Red Hat Linux, that desire further technical training to begin the process of becoming a system administrator.

Course Material

The official courseware from Red Hat will be provided during the training.

Post Training Support

Candidates can clarify any doubts on the topics covered in the course over email for a period of 30 days after the conclusion of the course.

Duration

Four Days: 10 am - 5.30 pm

Course Fee

Rs. 6,000/- (plus 10.3% service tax)

Mode of Payment

The course fee has to be paid completely in advance by cash / Credit-Debit Card / Cheque / Demand Draft payable in Bangalore City in favour of "Linux Learning Centre Private Limited". The registration can be forwarded along with the payment by hand or by courier.

Course Outline

Administrative Access

- Access and administer text and graphical consoles
- Remotely access the system for administration
- Gain administrative privilege
- Access virtualized systems

Package Management

- Add, remove and manage software using **yum**
- Configure **yum** to connect to a private repository
- Connect to and use the Red Hat Network
- Create a private **yum** repository
- Perform advanced tasks with **rpm**

System Services and Security

- Monitor and configure system logs
- Automate tasks with **cron**
- Configure printing
- Understand the importance of time synchronization
- Describe SELinux service security features

System Initialization

- Check your current system state
- Start, stop and check services
- Change to different runlevels
- Understand the boot sequence

Kernel Monitoring and Configuration

- Understand the purpose and organization of the kernel
- Know how to configure the kernel using **/proc** and **sysctl**
- Explore hardware devices available on the system
- Understand how to load and configure kernel modules

Network Configuration

- Configure TCP/IP network interfaces and routing
- Configure DNS name resolution
- Do basic monitoring and filtering of network traffic
- Describe how interfaces could be bonded

Filesystem Administration

- Monitor filesystems
- Access removable media
- Access data from remote systems using NFS
- Mount NFS filesystems on demand

Additional Storage

- Add new partitions/filesystems
- Troubleshoot filesystems
- Add virtual memory

User Administration

- Manage user and group accounts
- Set up filesystem quotas

Filesystems for Group Collaboration

- Manage security
- Create collaborative directories using **SetGID**
- Extend filesystem security with **ACLs**

Centralized User Administration

- Describe how Red Hat Enterprise Linux Accesses user information
- Configure system to use centralized authentication services

Software RAID

- Configure high-availability storage with **RAID**
- Recover a degraded software **RAID** array

Logical Volume Management

- Use storage more efficiently with logical volumes
- Back up logical volumes with minimal risk and downtime

Virtualization and Automated Installation

- Define virtualization
- Interactively install virtual machine
- Create and utilize Kickstart files
- Set up an **anaconda** server

Troubleshooting with Rescue Mode

- Develop a strategy for troubleshooting
- Use the **rescue** environment
- Access virtualized disks from **Domain-0**